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GROUP 1100

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: J. Bednorz et al.

Date: March 6, 1997

Serial No.: 08/303,561

Group Art Unit: 1105

Filed: September 9, 1994

Examiner: D. McGinty

For: NEW SUPERCONDUCTIVE COMPOUNDS HAVING HIGH  
TRANSITION TEMPERATURE, AND METHODS FOR THEIR  
USE AND PREPARATION

The Commissioner of Patents and Trademarks  
Washington, D.C.

**SUBSTITUTE AMENDMENT**

Sir:

In response to the Office Letter dated January 8, 1997, please consider the following:

**IN THE CLAIMS**

Add claims 114-128.

114. (Added) A method including the steps of forming copper oxide having a phase therein which exhibits a superconducting state at a critical temperature in excess of 26°K;

maintaining the temperature of said material at a temperature less than said critical temperature to produce said superconducting state in said phase;

passing an electrical supercurrent through said copper oxide while it is in said